

Data sheet:

## Interface - plastic fiber optic <> RS232 with DB9 socket



Article no.: 81009

EUR 118.00

\*Net price for commercial users

### Non-radiating and insensitive to noise

The model 81009 Interface transmits serial RS232 data via plastic duplex fibers over a distance of up to 80 meters. The converter powers itself from the serial port and so usually requires no additional power supply.

### Properties

#### Interfaces:

- **RS232 Interface**
  - 9-pin SUB-D female, ready to connect to a PC
- **Fiber optics interface**
  - Direct connection of the fiber optic cable without a connector
  - Alternate names: POF (polymer optical fiber, plastic optical fiber)

#### Management and connectivity:

- **Transmission length 5 to 80 meters. Distances < 5 meters are possible using model 81029.**
- **The interface is very easy to install:**
  - Cut the fiber-optic cable with a sharp knife at right angles.
  - Insert into patented adapter of the W&T interface.
  - Plug the adapter into the PC.
  - That's it!
- **No re-configuration of transmission parameters required**
- **100% protection against interfering radiation**
- **Electrical isolation**
- **Lightning protection**

#### Power supply:

- **No additional power source required**

#### Standards & more

- **Conforms to standards both in office and industrial environments:**
  - High noise resistance per EN 61000-6-2
  - Low noise emission per EN 55032:2015 + A1 Cl. B, EN 61000-3-2 & EN 61000-3-3
- **5 year guarantee**

♥ Wish for something!  
Your suggestions for improvement and additions

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### Worth knowing

The model 81009 Interface powers itself from the signal lines of the serial interface and requires no additional external power supply when operated on standard RS232 interfaces.

If however there are supply problems due to low-power interfaces, it is always possible to externally power the interface with up to 9V using its handshake inputs, or to use fiber-optic interfaces having their own power supply (e.g. model 81201).

With model 81029 there is also a 9-pin special version available whose transmission distance is limited to from 0 to 20m, but which only places an approx. 2mA load on the connected RS232 interface. With this version it is also possible to run on lower power RS232 interfaces without the need for an additional voltage source.

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## Technical data

### Connections and displays:

Serial port:	RS232 Interface 9-pin SUB-D female, ready to connect to a PC
Fiber-optic cable adapter:	socket with automatic interlocking of the fiber-optic cable
Baud rate:	110..115,200 baud
Data format:	any format
Supported signals:	RxD, TxD
Maximum distance:	typ. 80 meters over fiber optic cable (when operating on RS232 ports with MC1488 driver chips and with handshake lines connected)
Power supply:	In general from the RS232 signals. For low-power versions of the serial port external supplying of the interfaces via handshake inputs with up to 9V DC is possible
Fiber-optic medium:	Duplex plastic optical fiber cable Dimensions 2.2 x 4.4mm with a fiber diameter of 1mm Material: core: PMMA, cladding: PE
Wavelength:	approx. 660nm

### Housing and other data:

Housing:	SUB-D adapter housing
Enclosure rating:	IP40
Weight:	approx. 30g
Ambient temperature:	Storage: -40..+70°C Operation: 0..+50°C
Scope of delivery:	Plastic optical fiber cable <> RS232 interface, 9-pin for PC

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## Accessories

\*Net unit price for commercial users

### FO-Accessories

Duplex plastic fiber optic cable, sold by the meter (Unfortunately, this article cannot be ordered as a sample.)	81100	3.50€	
Duplex plastic fiber optic, cable reel 500m (Unfortunately, this article cannot be ordered as a sample.)	81500	778.00€	
Cutting tool for plastic fiber optic cable (This article cannot be ordered as a sample. So that you can assess the cut quality we will be glad to provide you on request with an optical fiber cable which has been trimmed using the cutting tool. )	81600	438.00€	
Replacement cutter for cutting tool 81600 (Unfortunately, this article cannot be ordered as a sample.)	81602	168.00€	

\* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

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